## WHAT IS CLAIMED IS:

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- A scintillator comprising a Group III nitride 1. compound semiconductor.
- A scintillator according to claim 1, wherein said Group III nitride compound semiconductor has a layer structure.
- 3. Ascintillator according to claim 2, wherein a layer the standard Group III. nitride compound semiconductor is: formed on the state of the state

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4. A scintillator according to claim 3, wherein a buffer layer is formed between said substrate and said Group III nitride compound semiconductor layer.

5. A scintillator according to claim 2, wherein said Second III nitride compound semiconductor layer has a hetero on w**structure**se in the policy of the common wave of water and a second

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- 6. A scintillation counter including a scintillator 20 according to claim 1.
  - 7. A scintillation counter including a scintillator according to claim 2.

- 8. A scintillation counter including a scintillator according to claim 3.
  - 9. A scintillation counter including a scintillator
- 5 according to claim 4. The first of the f
  - 10. A scintillation counter including a scintillator according to claim 5.
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